: 412 X-TUBE INST,LOW NARROW AFT

User:

Thursday, 17/04/2008 11:00:27 AM

Julie Lecocq

Process Sheet

Customer

: CU-DAR001 Dart Helicopters Services

Job Number

S.O. No. :

Estimate Number

: 38674 :413211

P.O. Number

This Issue

: 17/04/2008

: NC

Prsht Rev. : // First Issue

Previous Run

: 38017

: LANDING GEAR Type

Part Number

Due Date

Drawing Name

Drawing Number Project Number

: N/A

: D412664205TRN

. D412-664 -245 REV C

Drawing Revision

Material

: 10/05/2008

Qty:

1 Um:

Each

Written By

Comment

Checked & Approved By

: Est Rev:A New Issue 08-03-06 DD verified by:ec Est Rev B 08.04.02 Removed polish EC verified by: DD

Additional Product

SERAP

Job Number:



Seq. #:

Machine Or Operation:

Description:

1.0



Crosstube Material



Comment: Qty.

1.0000 Each(s)/Unit

Total:

1.0000 Each(s)

Pick:

Qty Part number Description Batch

1 D6009-129 Crosstube **63230**C

Check OD = 3.500"; ID = 2.250"

2.0

MORI SEIKI

MORI SEIKI CNC LATHE LARGE









Comment: MORI SEIKI CNC LATHE LARGE

1-Fill tube with sand & install plugs DT8534 on both ends as per Folio FA690

2-Turn first side as per Folio FA690

3- File transition lines smooth.

3.0

QC1

INSPECT ALL DIM TO DIM SHEET



Comment: INSPECT ALL DIM TO DIM SHEET

4.0

MORI SEIKI

MORI SEIKI CNC LATHE LARGE





Comment: MORI SEIKI CNC LATHE LARGE

1-Turn second side as per Folio FA690

2- File transition lines smooth.

3- Remove sand and plugs

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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
		K. Carlotte and the control of the c					
							<u> </u>

Part No: DA12-664-205TRDPAR #: NA Fault Category: Prod/x-fube. NCR: Yes No DQA: Date: 08/05/66

QA: N/C Closed: Date: 05/05/06

NCR: 3	8674	W	ORK OR	DER NON-CONFORMANCE	E (NCR)			
DATE	STEP	Description of NC	In this of	Corrective Action Section B	Cian 9	Verification	Appro <u>v</u> al	Approval
		Section A	Initian Chief Fing	ie f ∰ng Chief Eng Date		Section C	Chief Eng	QC Inspector
		4+ 46.250' 6 50.250" He outside Dig. 15 all by acout	arb	Jorgo Part. Posicios Buse la Penla				
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		inditalining even	1-1-	=PMD 412 664 205				000
				10 m/25 / 10 m/2				

NOTE: Date & initial all entries

Date: Thursday, 17/04/2008 11:00:27 AM User: Julie Lecocq **Process Sheet** Drawing Name: 412 X-TUBE INST, LOW NARROW AFT Customer: CU-DAR001 Dart Helicopters Services Job Number: 38674 Part Number: D412664205TRN Job Number: Seq. #: Description: Machine Or Operation: 4-Scribe part # and batch # using vibrating stylus as per Dwg D412-664-245 Inside of Cuff(Donot engrave on outside of tube) INSPECT ALL DIM TO DIM SHEET 5.0 QC1 Comment: INSPECT DIM TO DIM SHEET SECOND CHECK 6.0 Comment: SECOND CHECK HAND FINISHING RESOURCE #1 HAND FINISHING Comment: HAND FINISHING RESOURCE #1 Chemical Conversion Coat as per QSI 005 4.1 INSPECT POWDER COAT/CHEMICAL CONVERSION 8.0 QC3 Comment: INSPECT POWDER COAT/CHÉMICAL CONVERSION PACKAGING RESOURCE #1 9.0 PACKAGING 1 Comment: HAND FINISHING RESOURCE #1 Identify and stock in/kanban rack Location: FINAL INSPECTION/W/O RELEASE 10.0 QC21 Comment: FINAL INSPECTION/W/O RELEASE

Job Completion



mf 08-05-06

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W/O:		WORK ORDER CHANGES										
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector					
Part No	,•	PAR #· Fault Category· NC	R. Ves	No DOA	\•	Date:	<u> </u>					

QA: N/C Closed: ____ Date: ____

WORK ORDER NON-CONFORMANCE (NCR)									
nevel Amme		Verification	Corrective Action Section B			Description of NC			
roval Appro ef Eng QC Inspe	Approval Chief Eng	Section C	Sign & Date	Action Description Chief Eng	Initial Chief Eng	Section A	STEP	DATE	
	É								

NOTE: Date & initial all entries



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DESIG	P	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA
CHECK	ŒD ,/	APPROVED //	DRAWING NO. REV. (
	A	1 At	D412-664-245 SHEET 1 OF 3
DATE			TITLE SCALE
07.0	3.29		CROSSTUBE ASS'Y (412 LOW-N AFT) NTS
Α		06.12.01	NEW ISSUE
В		07.03.01	CHG CUFF AREA, CHG RUBBER CUSHION
С		07.03.29	CHG RIVET AND RUBBER CUSHION

RELEASED 070424

<u>PARTS LIST:</u>

Qty	Part Number	Description
х	D412-664-245	CROSSTUBE ASSEMBLY (412 LOW-NARROW AFT)
1	D6009-129	CROSSTUBE
2	D2856-600-1009	ABRASION STRIP
1	D2896-1	SUPPORT
2	D3189-1	CHAFING SHIELD
2	D3595-063-570	RUBBER CUSHION
2	D3606-1	CUFF
44	CR3212-4-07	RIVET (OR M7885/3-4-07)
4	MS21920-28	CLAMP
2	MS21920-30	CLAMP (OR MS21920-32)
A/R	MAGNOBOND 6398	ROCKWELL SPECIFICATION RBO-120-023 ADHESIVE (TEXTRON/BELL SPEC. 299-947-100, TYPE II, CLASS 2 ADHESIVE)
A/R	SIKAFLEX-241/-291	SEALANT (OR PROSEAL 890 OR MIL-S-8802 CLASS B2 SEALANT)

GENERAL NOTES:

- TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.
- MATERIAL: MANUFACTURED FROM D6009-129
 - FINISHED LENGTH = 123.59±0.020 (BEFORE BENDING/TRIMMING)
- FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
 - PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2
 - PAINT OUTSIDE PER DART 005 4.2
- PART IS SYMMETRIC ABOUT CENTERLINE.
- RUN-OFF PART. BLEND OUT EDGE LONGITUDINALY, TRANSITION SHOULD BE SMOOTH.
- BEND PROGRESSIVELY WITH A MINIMUM OF 8 PASSES. MAXIMUM TUBE FLATTENING DUE TO BENDING IS 6% BASED ON O.D., EXCEPT UP TO 10% IS ALLOWED IN AREA NOTED. LIQUID PENETRANT INSPECT OUTSIDE SURFACE OF CROSSTUBE PER QSI 038.
- SCRIBE DART PART NUMBER AND BATCH NUMBER IN THIS AREA WITH VIBRATING STYLUS.
- INSTALL D2856-600-1009 ABRASION STRIP WITH A 0.13 (REF) GAP ON BOTTOM SIDE OF CROSSTUBE PER QSI 035.
- 10) EXTREME CARE MUST BE TAKEN TO PROTECT THE OUTSIDE SURFACE OF THE TUBE. THE OUTSIDE SURFACE MUST BE SMOOTH AND FREE FROM SURFACE DEFECTS SUCH AS SCRATCHES, NICKS, OR DENTS. DEFECTS UP TO 0.005" MAY BE BLENDED OUT LONGITUDINALLY. CIRCUMFERENTIAL GRIND MARKS ARE UNACCEPTABLE
- 11) APPLY A 0.03" TO 0.06" THICK LAYER OF MAGNOBOND 6398 TO THE SURFACE OF D2896-1 THAT WILL BE IN CONTACT WITH THE CROSSTUBE. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.
- 12) INSTALL MS21920-30 CLAMPS (OR -32) WITH D3595-063-570 RUBBER CUSHIONS TO SECURECONTROLLED COPY D2896-1 SUPPORT ON TOP SIDE OF THE CROSSTUBE. ENSURE CLAMPS ARE OPPOSITE SUBJECT TO AMENDMENT CROSSTUBE SUPPORT.

SHOP COPY

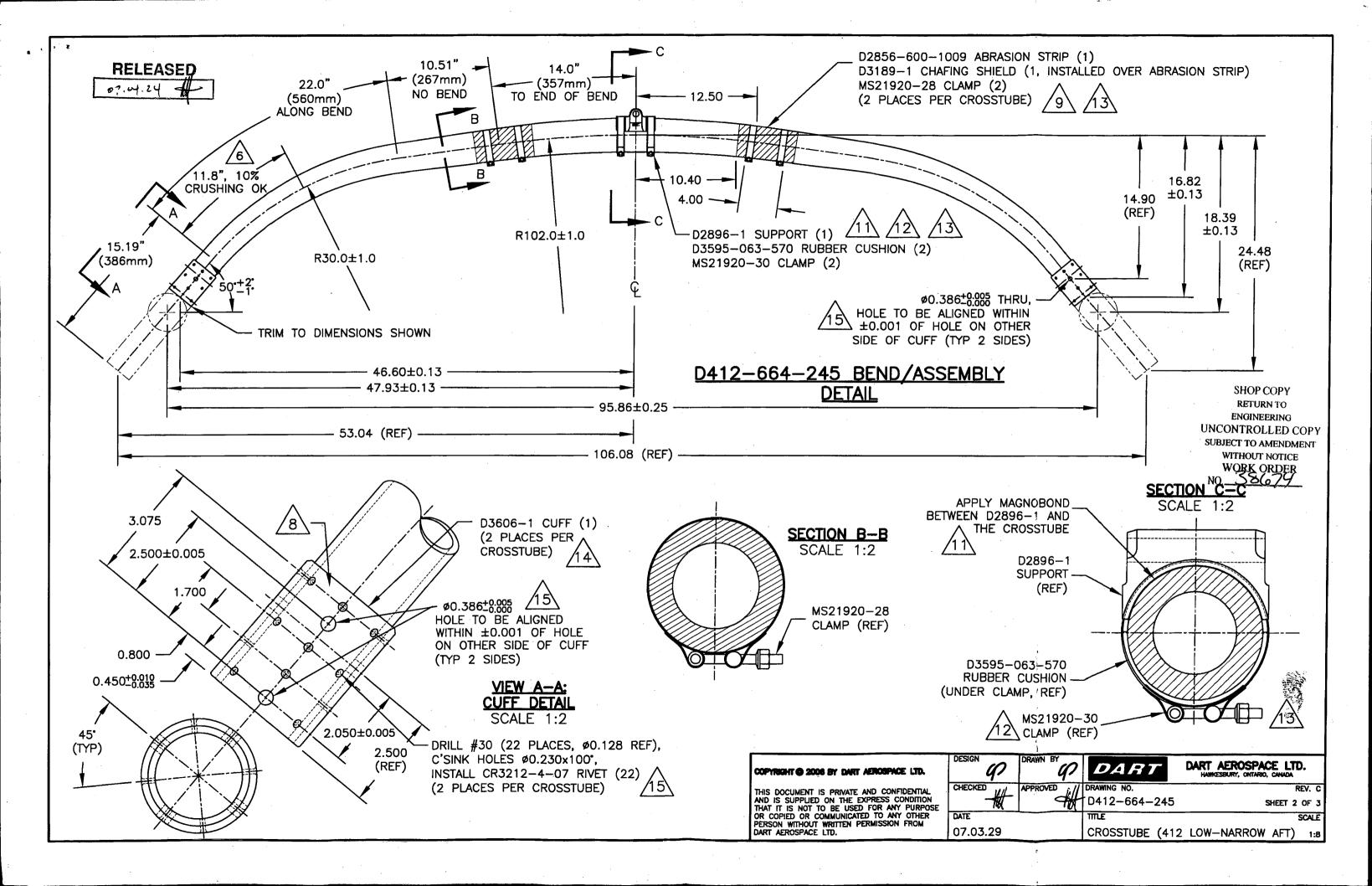
RETURN TO **ENGINEERING**

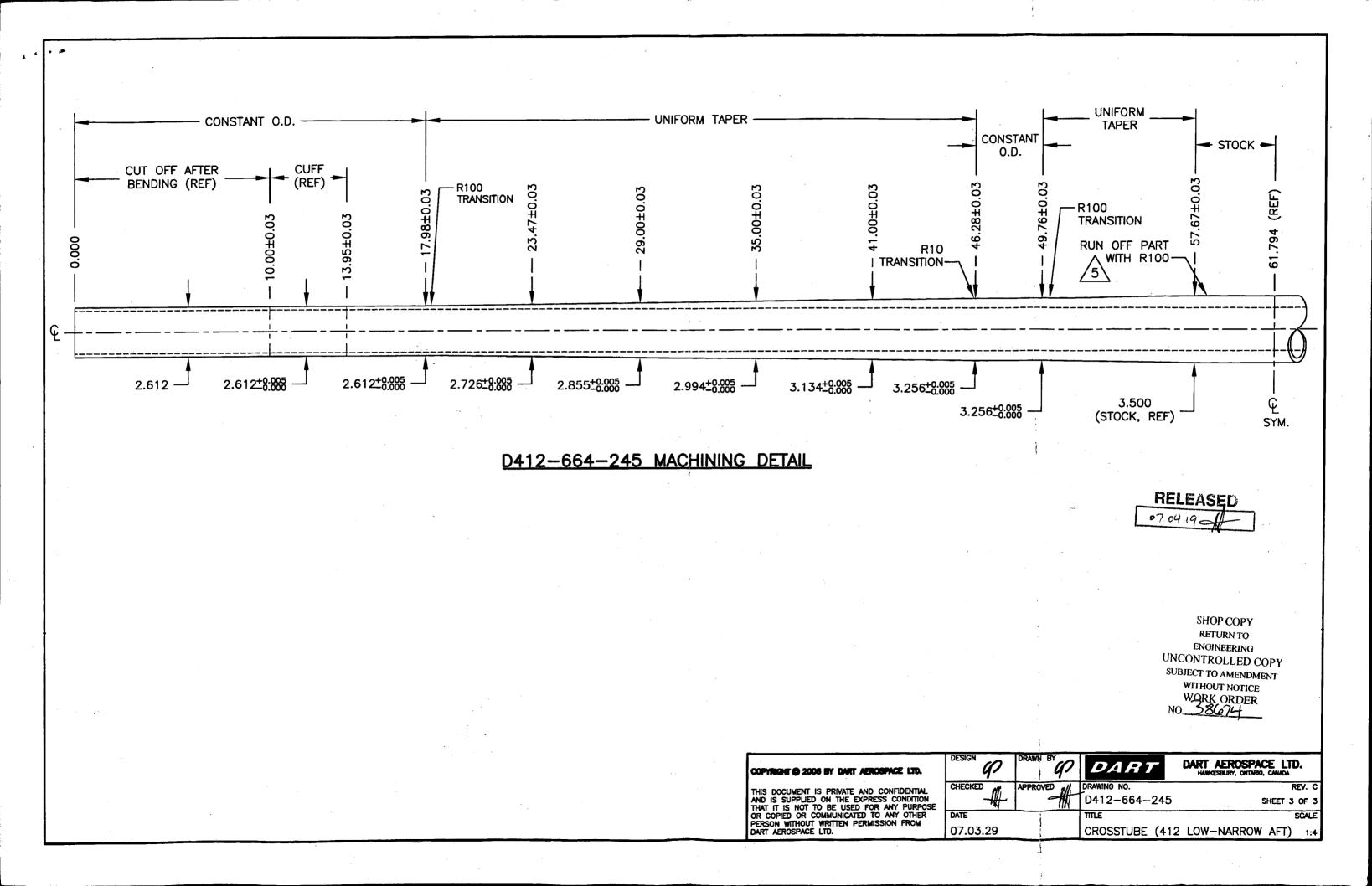
- WITHOUT NOTIC 13) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY WORK ORDE AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.
- 14) INSTALL D3606-1 CUFF AFTER CHEMICAL CONVERSION COAT BUT BEFORE PAINT, WITH AND LAYER OF SIKAFLEX-241/-291 OR PROSEAL 890 OR MIL-S-8802 CLASS B2 SEALANT BETWEEN CUFF AND CROSSTUBE. SEAL EDGE OF CUFF TO ENSURE NO GAPS.

 15) TOUCH-UP HOLES WITH CHEMICAL CONVERSION COAT.

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